

Subject Index

A

Admixtures, water-repellent, 173
 Air content, 145
 Air leakage, 32, 115
 Air pressure, 276
 difference, effect on water
 penetration, 290
 Alkali attack, 52
 Aluminum, 317
 windows, 70, 255
 Apartments
 high rise, cladding repair, 52,
 70
 repair, university, 255
 Asbestos, 317
 ASTM standards, 145
 C 652, 199
 C 1389, 276
 E 514, 173, 199
 E 1105, 290

B

Backer rod, 317
 Backup wall, 3
 Blind fasteners, 317
 Borescope evaluation, exterior,
 70
 Brick, 125, 227, 255
 prefabricated panels, 215
 veneer, 240
 Building Environment and
 Thermal Envelope Council
 moisture analysis tutorial, 91

C

Capillary action, 276
 Cavity drainage wall, 215
 Cavity walls, 240
 Cement-lime mortars, 145
 Cladding, 17, 52
 masonry, 115
 overcladding, 303

Clay masonry, 199
 brick, 227
 Cleanout, foam side, 163
 Coating, 3
 Compressive strength, 145
 Concrete barrier wall, 255
 Concrete block, 173
 Concrete masonry system,
 163, 227
 block design, water-
 repellent, 173
 Concrete spandrel panels, 52
 Condensation, 115, 125
 prediction, 91
 Construction moisture drying,
 32
 Corrosion protection, steel
 replacement windows,
 255
 Curtain wall, 317

D

Damp-proofing, 240
 Dehumidification, ice rink, 125
 Delamination, base from
 insulation, 3
 Dew point, 115
 Diffusion control strategies,
 vapor, 32
 Doors, sliding glass, 17, 70, 290
 Drainage wall, 296
 cavity, 215
 Driving rain index, 276
 Drying and wetting potential,
 barrier clad wall, 32

E

Efflorescence, 125
 Exterior insulation and finish
 systems, 3, 17, 32, 52, 70

F

Facade system, unified, 3

Face shells, 163
 chamfered vertical sides, 173
 Field tests, 125
 water chamber, 270
 water infiltration, 290
 Finite difference analysis,
 one-dimensional, 199
 Flashing, 3, 296
 masonry, 240
 step, 240
 throughwall, 240
 window, 255
 Frame fabrication, steel
 replacement windows, 255

G

Gaskets, 317
 Glazing design, steel replacement
 windows, 255
 Gypsum
 sheathing, 3, 52
 wallboard, 17

H

Headers, bonded, 227
 High-rise apartment
 rebuilding and resealing
 repairs, 70
 retrofit, 52
 Hotel, mid-rise, lamina repairs,
 17
 Humidity
 ice rink, indoor, 125
 moisture infiltration, 115
 relative, prediction, 91
 swimming pools, indoor, 125
 Hygrothermal performance, 32

I

ICBO, 145
 Ice rink, enclosed, 125
 Insulation configurations,
 evaluation of, 199

J

Joints, 70
 bed, 173

design, 3
 sealant, 317

L

Lamina, cementitious base with
 fiberglass, 17
 LATENITE, 32
 Lime replacement mortars, 145

M

Masonry
 brick, 125, 227, 255
 brick, prefabricated panels,
 215
 brick veneer, 240
 cavity wall, 240
 cladding, 115
 clay, 199
 clay brick, 227
 concrete, 173, 227
 concrete, wall, 163
 stone, 255
 structures, 145, 276
 Metal, sheet, 240
 Metal stud backup, 17
 Mildew, 115
 Modeling, drying and wetting
 potential, 32
 MOIST model, 91, 199
 Moisture analysis tutorial, for
 building designers, 91
 Moisture content, layers,
 prediction, 91
 Moisture infiltration,
 humidity, 115
 Mold, 115
 Mortar, cement-lime, 145

N

National Concrete Masonry
 Association, 173
 National Institute for Standards
 and Technology
 MOIST model, 91

O

Office building, high rise, 317
Oriented strand board moisture content, 32

P

Panelized system, 17, 52
 overcladding, 303
Plastic properties, lime-
 replacement additives, 145
Polyethylene, 317
Polymer-modified cladding, 52
Polysulfide, 317
Polyurethane foam, 163
Portland cement-lime mortars,
 145
Prefabricated brick wall panels,
 215
Pressure equalization, 215

R

Rain-screen principle, 215
Repairs
 cavity wall flashing, 240
 cladding, 52
 exterior facade, 17
 overcladding, 303
 structural, 227
Residential applications, 296
 single-wythe clay masonry,
 199
Risk assessment, moisture
 damage, 91
Roof ridges, 240

S

Sealant, 3, 70, 296, 317
 two-stage, 52
 urethane, 17
Sealed connection, wall and
 foundation, 163
Sheet metal, 240
Silicone, 317
Silicone-treated, glass-fiber
 faced, gypsum board, 52
Single-wythe masonry wall, 173
Slab edge insulation, 163

Solar radiation, influence on
 hygrothermal
 performance, 32
Standards (See also ASTM
 standards), waterproofing,
 296
Steel shelf angles, 240
Steel, stainless, 317
Steel windows, 255
Stone, 255
Swimming pool, indoor, 125

T

Terminations, exterior finish,
 leakage, 3, 70
Thermal transmission, 199
Tolerance conflict, 70

V

Vapor diffusion and control, 32
Vapor transmission, 199
Veneer, 240, 296
Visual evaluation, facade, 70

W

Wall flashings, 240
Wall panels
 overcladding with, 303
 prefabricated brick, 215
Water chamber test method, 276
Weather resistance, long-term,
 227
Wetting and drying potential,
 barrier clad wall, 32
Wind-driven rain, 173, 199, 276
Wind loads, 317
Windows
 deficiencies, 3
 leaks, 290
 steel, 255
 wet seal, 70
Wood-framed buildings, 296
Wood decking, 125